PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference YL04023PCT	FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No.	International filing date(day		Priority date (day/month/year)			
PCT/KR2004/002993	18 NOVEMBER 200		10 DECEMBER 2003 (10.12.2003)			
International Patent Classification (IPC) or national classification and IPC C12N 1/20(2006.01)i						
Applicant						
CJ CORP. et al						
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total	of 3 sheets, in	ncluding this cover sh	eet.			
3. This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total ofsheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the						
Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items: Box No. 1 Basis of the report Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application						
Date of submission of the demamd		Date of completion of this report				
06 MAY 2005 (06.05.2005)		02 JANUARY 2006 (02.01.2006)				
Name and mailing address of the IPEA/KR		Authorized officer	Some company i			
Korean Intellectual Property 920 Dunsan-dong, Seo-gu, Republic of Korea		LEE, CHUNG I	но			
Facsimile No. 82-42-472-7140		Telephone No. 82-42-481-8160				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/002993

Box No. I	Basis of the report					
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)						
to the r	 With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not annexed to this report): the international application as originally filed/furnished 					
I	the description: pages pages* rec pages* rec	ceived by this Authority on ceived by this Authority on	_as originally filed/furnished			
p p	the claims: pages pages*	as amended (together with served by this Authority on	as originally filed/furnished any statment) under(Article 19			
p p	he drawings: pages rec pages* rec	ceived by this Authority on	_as originally filed/furnished			
the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):						
r	This report has been established as if (some of) the ame made, since they have been considered to go beyond the (Rule 70.2(c)). the description, pages	e disclosure as filed, as indicated in t	he Supplemental Box			
* If item 4 applies, some or all of those sheets may be marked "superseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/002993

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-3	YES
		Claims		NO
	Inventive step (IS)	Claims	1-3	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-3	
		Claims		NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report:

D1: EP 0350970 A1 (KYOWA HAKKO KOGYO CO., LTD.), 24 Feb. 1984. D2: EP 1029926 A1 (KYOWA HAKKO KOGYO CO., LTD.), 08 Feb. 2000.

1. Novelty and Inventive Step

Ciaims 1-3 relate to a mutant strain, *Corynebacterium ammoniagenes* having a resistance to 5-fluorotryptophan and producing 5'-xanthylic acid; and a method of producing 5'-xanthylic acid characterized by using the same microorganism.

D1 discloses a new microorganism, *Corynebacterium glutamicum* having a resistance to antibiotics of the type which inhibit energy metabolism and producing 5'-xanthylic acid; and a method for producing 5'-xanthylic acid using the same. In D2, process for producing 5'-xanthylic acid and microorganisms useful in said process are described. Compared with the present invention, none of the above-mentioned prior art documents disclose the mutant strain of the present application and the method of producing 5'-xanthylic acid using the same microorganism. In addition, the present invention is not considered to be easily invented by a person skilled in the art by using the teachings of D1 and D2.

Therefore, the subject matter of claims 1-3 of the present application comply with the requirements of novelty and inventive step under PCT Article 33(2) and (3).

II. Industrial Applicability

There is no reason for forming a negative opinion about the industrial applicability of this invention. Consequently, claims 1-3 appear to meet the requirement of PCT Article 33(4).